

## CLAIMS

1. A digital signal processing apparatus,  
comprising:

5 a plurality of digital signal processing  
blocks and a host arithmetic operation processing block  
as functions necessary for processing a digital signal;

a bus for connecting said host arithmetic  
operation processing block and said plurality of  
digital signal processing blocks; and

10 an interface for an extension function  
providing medium connected to said bus,

wherein the extension function providing  
medium has:

15 means for accomplishing an extension  
function; and

a script embedding a command for operating  
the extension function, and

20 wherein when the extension function providing  
medium is attached to said bus through said interface,  
the script is sent to said host arithmetic operation  
processing block side and a function of the extension  
function providing medium is operated corresponding to  
the command embedded in the script.

2. The digital signal processing apparatus as  
25 set forth in claim 1,

wherein each of said plurality of digital  
signal processing blocks includes means for

interpreting a command received through said bus and  
executing the command.

3. The digital signal processing apparatus as  
set forth in claim 1,

5 wherein the command is a high layer command  
that does not depend on hardware and that is not on  
real time basis.

4. The digital signal processing apparatus as  
set forth in claim 1,

10 wherein the command is described and embedded  
in a script of hypertext,

wherein the hypertext is interpreted by a  
browser and a picture for operating the extension  
function is displayed, and

15 wherein a command corresponding to the  
function is embedded and displayed in the picture for  
operating the extension function.

5. A digital signal processing system,  
comprising:

20 a digital signal processing apparatus having:

a plurality of digital signal processing  
blocks and a host arithmetic operation processing block  
as functions necessary for processing a digital signal,

a bus for connecting said host arithmetic  
25 operation processing block and said plurality of  
digital signal processing blocks, and

an interface for an extension function

providing medium connected to said bus; and  
an extension function providing medium  
attached to said interface of the extension function  
providing medium on the digital signal processing side,  
5 wherein said extension function providing  
medium has:

means for accomplishing an extension  
function; and

a script embedding a command for operating  
10 the extension function, and  
wherein when said extension function  
providing medium is attached to said bus through said  
interface, the script is sent to said host arithmetic  
operation processing block side and a function of said  
15 extension function providing medium is operated  
corresponding to the command embedded in the script.

6. The digital signal processing system as set  
forth in claim 5,

20 wherein each of said plurality of digital  
signal processing blocks includes means for  
interpreting a command received through said bus and  
executing the command.

7. The digital signal processing system as set  
forth in claim 5,

25 wherein the command is a high layer command  
that does not depend on hardware and that is not on  
real time basis.

8. The digital signal processing system as set forth in claim 5,

wherein the command is described and embedded in a script of hypertext,

5 wherein the hypertext is interpreted by a browser and a picture for operating the extension function is displayed, and

wherein a command corresponding to the function is embedded and displayed in the picture for operating the extension function.

10 9. An extension function providing method, comprising the steps of:

structuring functions necessary for processing a digital signal as a plurality of digital signal processing blocks and a host arithmetic operation processing block;

connecting the host arithmetic operation processing block and the plurality of digital signal processing blocks through a bus; and

20 providing an interface for an extension function providing medium connected to the bus,

wherein the extension function providing medium has:

means for accomplishing an extension function; and

25 a script embedding a command for operating the extension function, and

wherein when the extension function providing medium is attached to the bus through the interface, the script is sent to the host arithmetic operation processing block side and a function of the extension function providing medium is operated corresponding to the command embedded in the script.

10. The extension function providing method as set forth in claim 9,

wherein each of the plurality of digital signal processing blocks includes means includes a step for interpreting a command received through the bus and executing the command.

11. The extension function providing method as set forth in claim 9,

wherein the command is a high layer command that does not depend on hardware and that is not on real time basis.

12. The extension function providing method as set forth in claim 9,

wherein the command is described and embedded in a script of hypertext,

wherein the hypertext is interpreted by a browser and a picture for operating the extension function is displayed, and

wherein a command corresponding to the function is embedded and displayed in the picture for operating the extension function.